Application Serial No. 0/756,485
Reply to Office Action of November 4, 2003

Amendments to the Specification

Please amend the paragraph beginning at page 2, line 4 of the specification to read as follows.

In order to attain the above object, according to an aspect of the present invention, there is provided a method comprising the steps of: checking a test mode of the routing test by receiving the test mode by a user; calling a stored virtual network or editing the virtual network, when the routing test is performed by using a virtual network defined by the user; generating new virtual networks recursively based on respective information, when the routing test is performed by using a virtual network generated by a virtual network generator included in a routing test system; operating a target protocol of a virtual router and a router under test of the virtual network; and transmitting a packet considering a portion of the virtual network as a destination address trough via the router under test; and, monitoring links of the router under test.

Please amend the paragraph beginning at page 5, line 8 of the specification to read as follows.

After operating the target protocol, a packet having one portion of the virtual network as a destination address is transmitted through the RUT, and links of the RUT are monitored to determine whether the packet is transmitted properly by a correct routing calculation in steps of S36 and S37. Then, if the user wants, the test is performed recursively on the identical virtual network in step S38. After completing the test for the identical virtual network, it is determined whether the test mode is "mode 2" and the virtual networks are not generated as many as the inputted number of the virtual networks by the user in step S39. If so, the control flow returns to step S35 S34. If not, the control flow goes to step S40. At step S40, if the user wants the test to be repeated, the control flow returns to the step S31 to repeat the test.

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Please amend the abstract of the specification to read as follows.

A method for routing test comprises the steps of: checking a test mode of the routing test by receiving the test mode by a user; recalling a stored virtual network or editing the virtual network, when the routing test is performed by using a virtual network defined by the user; generating new virtual networks recursively based on respective information, when the routing test is performed by using a virtual network generated by a virtual network generator included in a routing test system; operating a target protocol of a virtual router and a router under test of the virtual network; and transmitting a packet considering a portion of the virtual network as a destination address ~~trough~~ via the router under test, and monitoring links of the router under test. A routing test system according to the present invention generates various network topologies as much as user wants through a network generator, and performs a routing test after transmitting information to make a target router verify the generated topologies. Thus, the target router can correct routing calculation for the respective network topologies.

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